NTBPI Macro - Buffer Pool Initialization

The NTBI macro is used to define a Natural buffer pool. For general information on the Natural buffer pool, see Natural Buffer Pool.

This document covers the following topics:

- NTBPI Syntax
- NTBPI Parameters
- Examples of NTBPI Macros
- NTBPI Alternative

NTBPI Syntax

The NTBPI macro is specified as follows:

NTBPI TYPE=*type*,SEQ=*n*,NAME=*name*,SIZE=*nnn*,LIST=*name*,TXTSIZE=*n*

NTBPI Parameters

TYPE | SEQ | NAME | SIZE | LIST | TXTSIZE

TYPE - Type of Buffer Pool

Determines the type of the buffer pool. Possible types are:

NAT	Natural buffer pool (this is the default).
DLI	DL/I buffer pool.
EDIT	Software AG Editor buffer pool. For the Software AG Editor buffer pool, see also the profile parameter EDPSIZE.
SORT	Sort buffer pool.
MON	Buffer pool for Monitor function of SYSTP utility.
DCOM	Buffer pool to hold DCOM objects (class models, class factories, instances) separately from the "normal" Natural buffer pool.

SEQ - Sequence Number of Buffer Pool

Determines the sequence number *n* of the buffer pool.

For every buffer pool, you can define one or more backup buffer pools; that is, alternative buffer pools (of the same *type*, but with a different sequence number) which will be used if the buffer pool is not available at session initialization or cannot be allocated.

Buffer pools of the same *type* are sorted in order of sequence numbers (should two pools of the same type have the same sequence number, they will be sorted in the order in which they are specified). If a requested buffer pool is not available, the buffer pool of the same type with the next higher sequence number will be used instead. If that one is not available either, the one with the next higher number will be used, etc.

Possible values	0 to 9
Default sequence number	0 (that is, the buffer pool is a primary buffer pool, not a backup buffer pool).

NAME - Name of Global Buffer Pool

Applies only to global buffer pools.

Determines the name of the global buffer pool (1 to 8 characters). For a local buffer pool, the name is blank.

The NAME specification can be overridden dynamically with the profile parameter BPNAME.

SIZE - Size of Buffer Pool

Applies only to local buffer pools. Determines the size *nnn* of the buffer pool (in KB). Possible values are: 100 to 2097151. The default size is 256.

Under Com-plete: The SIZE specification of the NTBPI macro is ignored for a local buffer pool. The size is established in the buffer-pool server definition (see Installing the Natural/Com-plete Interface in the Natural Installation Guide for Mainframes.

The SIZE specification can be overridden dynamically with the profile parameter BPSIZE.

LIST - Name of Preload List to be Used

Applies only to local buffer pools of TYPE=NAT.

Determines the *name* of the preload list to be used for this buffer pool. The default is blank (that is, no preload list is to be used).

For general information on preload lists, see Preload List. Preload lists are maintained with the SYSBPM utility as described in the section Debugging and Monitoring.

The LIST specification can be overridden dynamically with the profile parameter BPLIST.

TXTSIZE - Size of Buffer Pool Text Segments

Applies to local buffer pools of the following types:

- TYPE=NAT
- TYPE=SORT
- TYPE=DLI
- TYPE=DCOM.

Determines the size *n* (in KB) of the buffer pool text segments.

Possible values	1, 2, 4, 8, 12, 16 (KB)
Default value	4.

In multi-user environments (for example, under CICS), the TXTSIZE specification only affects the very first Natural session which initializes the local buffer pool.

Under BS2000/OSD: The parameters SEQ, NAME and SIZE are ignored.

The TXTSIZE specification can be overridden dynamically with the profile parameter BPTEXT.

Examples of NTBPI Macros

```
NTBPI TYPE=NAT,SEQ=0,NAME=NATBP1
NTBPI TYPE=NAT,SEQ=1,NAME=NATBP2
NTBPI TYPE=NAT,SEQ=2,SIZE=1000
```

These examples define multiple Natural buffer pools. If the global buffer pool NATBP1 is not available, the global buffer pool NATBP2 will be used instead. If the latter is not available either, a local buffer pool with a size of 1000 KB will be used.

NTBPI Alternative

Instead of the NTBPI macro, you can also use the dynamic profile parameter BPI.

If you want to dynamically replace the primary buffer pool by a local buffer pool of 2000 KB, you can specify:

```
BPI=(NAME=' ',SIZE=2000)
or
BPNAME=' ',BPSIZE=2000
```